

# **Guidance for the Use of Social Science in Fishery Management**

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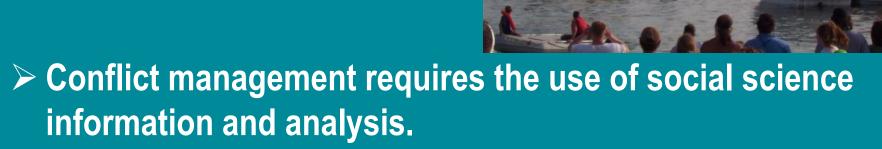
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# NOAA FISHERIES SERVICE

#### Why include Social Science if we are managing fish?

Fishery managers don't manage fish; they manage people's access to fish.

➤ Allocation decisions (from ACLs to ITQs), involve and affect cultural, sociological and economic patterns in society.





#### What is social science?

The social sciences study the ways that people live and work: who we

are, and how we got that way.

➤ The social sciences are broad: looking at everything from how people use scarce resources for competing needs, how they organize themselves in groups, to their knowledge, values, and ways of viewing and understanding the world.



➤ What I like about being a social scientist in NMFS it that it allows me to try to bring the voices of fishermen, their families and their communities into the management process.



## Where in an EA/EIS do you find social impacts?

- > Kinds of social analyses
  - Social Impact Assessment (SIA)
  - Affected Human Environment (AHE)

descriptions

- National Standard 8
- Environmental Justice
- Cumulative Impacts
- Levels of Analysis
  - individual, household, firm,
  - community
  - diverse participants and
  - affected groups





# **Issues in Social Analysis**

> Social and cultural systems are

sensitive to change

Small changes can have large cumulative impacts on fishery participants



➤ Analysis is comparative to a baseline data set: what if scenarios



### **Legal Authorities for SIA**

- ➤ NEPA [40 CFR 1508.14] "human environment", including "unquantified amenities and values"
- > MSA [MSA 303(a)(9)] "fishery impact statement", covering commercial, recreational, and subsistence fishing, and fishing communities
- MSA [MSA 301(a)(8)] "sustaining fishing communities", including fishing-related industries located there
- MSA [MSA 303(b)(6) and 303A] "limited access programs" and "Limited Access Privilege Programs"



## **Categories of Social Factors**

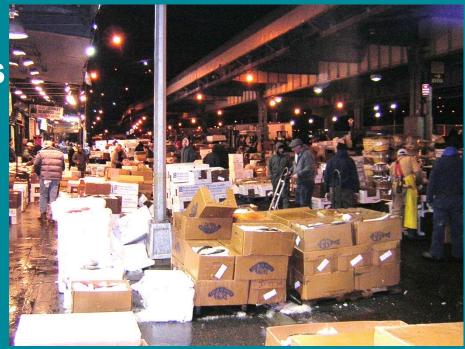
- Size and demographic characteristics of fishery work force and community
- Cultural norms, beliefs and values of fishermen, other stakeholders and communities
- Social structures and organizations related to fisheries, families and communities
- Non-economic aspects of the proposed action
- Historical participation in and dependence on the fishery by stakeholders and communities





#### **Criteria for Social Assessment**

- ➤ The fishery impact statement "winnows" the issues and factors
- ➤ Level of analysis selected must be appropriate to the action considered



Fishery conflicts, limited access, and environmental justice issues will require a high level of analysis and data inputs



#### Who is involved?

- ➤ Fisherman = any commercial, recreational and/or subsistence fisherman; includes owners, operators, and crew
- ➤ Vessel = any commercial, recreational, and/or for-hire vessel
- > Fishing industries and/or services
- = businesses primarily and directly associated with subsistence, commercial, and/or recreational fisheries (e.g., dealers, processors)
- ➤ Fishing-related industries and/or services = businesses that provide inputs to fishing industry businesses (e.g., ice providers, chandleries, net makers, boat builders)
- Fishing Community=place-based for NS8, can be interest-based for other analyses (e.g., based on gear, target species, area fished, tribal group, etc.)





# **An MSA Fishing Community**

- > Is a geographic place;
- ➤ Includes some or all of the participants/entities described above; and
- ➤ Is substantially dependent on fishery resources to meet community social and economic needs, and/or



- Is substantially engaged in the harvest and/or processing of fishery resources to meet community social and economic needs
- MSA 3(17) and 301(a)(8)



# **More on MSA Fishing Communities**

- ➤ Are there any MSA fishing communities defined yet?
- What information is available to identify fishery engagement, and/or dependence, of a community?



➤ Is there a standard process for defining MSA fishing communities?



#### **Environmental Justice**

➤ EO 12898 mandates all Federal agencies to address disproportionate and adverse effects of agency action on low-income and/or minority groups



➤ Assessment of environmental justice is required regardless of the significance of environmental impacts under NEPA and should be part of every EIS



**Cumulative Impacts** 

➤ NEPA requires an analysis of the proposal's cumulative impacts, including interactions with other fishery or non-fishery-related activities



"the incremental impact of the action when added to other past, present, and reasonably foreseeable future actions regardless of what agency (federal or non-federal) or person undertakes such other actions."



# Current Big Issues with Important Social Science Components

- Catch Shares
  - Controversial in many Regions
- Ecosystem-based Management
  - Level of implementation varies by Region
- Climate Change
  - Assessing social impacts depends on knowing biological impacts
- Food systems a new issue for NMFS
  - What happens once it leaves the dock? How do local fisheries connect to food security?



# NMFS-wide implementation of social and economic indicators

- > Fishery Performance Indicators
  - Financial Viability
  - Distributional Outcomes
  - Governance
  - Stewardship
  - Well-Being



- Social Vulnerability
- Commercial and Recreational Fisheries Engagement and Reliance
- Gentrification Pressure Vulnerability
- Coming soon climate change vulnerability, social capital, infrastructure
- But indicators need context the importance of ethnography and interviews



